

【Table 25】

| No. | machinability | | | corrosion resistance maximum depth of corrosion (μm) | hot workability 700°C deformability | mechanical properties | | stress resistance corrosion cracking resistance |
|------|----------------------|--------------------------------|-------------------------|----------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|-------------------|-------------------------------------------------------|
| | form of chippings | condition of cut surface | cutting force (N) | | | tensile strength (N/mm^2) | elongation (%) | |
| 6041 | ◎ | ○ | 115 | <5 | ○ | 520 | 34 | ○ |
| 6042 | ◎ | ○ | 117 | 20 | △ | 501 | 31 | ○ |
| 6043 | ◎ | ○ | 118 | <5 | △ | 585 | 32 | ○ |
| 6044 | ◎ | ○ | 116 | <5 | ○ | 516 | 32 | ○ |
| 6045 | ◎ | ○ | 116 | <5 | ○ | 538 | 35 | ○ |

【Table 26】

| No. | machinability | | | hot workability 700°C deformability | mechanical properties | |
|------|----------------------|--------------------------------|-------------------------|-------------------------------------------|---------------------------------------------------|-------------------|
| | form of chippings | condition of cut surface | cutting force (N) | | tensile strength (N/mm^2) | elongation (%) |
| 7018 | ◎ | ○ | 128 | ○ | 710 | 21 |
| 7019 | ◎ | ○ | 128 | ○ | 746 | 20 |
| 7020 | ◎ | ○ | 126 | ○ | 802 | 19 |

【Table 27】

| No. | machinability | | | hot workability 700°C deformability | mechanical properties | |
|------|----------------------|--------------------------------|-------------------------|-------------------------------------------|---------------------------------------------------|-------------------|
| | form of chippings | condition of cut surface | cutting force (N) | | tensile strength (N/mm^2) | elongation (%) |
| 7021 | ◎ | ○ | 126 | ○ | 792 | 19 |
| 7022 | ◎ | ○ | 128 | ○ | 762 | 20 |
| 7023 | ◎ | ○ | 129 | ○ | 725 | 17 |
| 7024 | ◎ | ○ | 128 | ○ | 744 | 21 |
| 7025 | ◎ | ○ | 130 | ○ | 750 | 20 |
| 7026 | △ | ○ | 132 | ○ | 671 | 23 |
| 7027 | ◎ | ○ | 128 | ○ | 740 | 23 |
| 7028 | ◎ | ○ | 133 | ○ | 763 | 22 |
| 7029 | △ | ○ | 129 | ○ | 647 | 24 |

【Table 28】

| No. | machinability | | corrosion resistance maximum depth of corrosion (μm) | hot workability 700°C deformability | mechanical properties | | stress resistance corrosion cracking resistance | high-temperature oxidation increase in weight by oxidation (mg/10cm ²) |
|------|----------------------|--------------------------------|----------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------|-------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------|
| | form of chippings | condition of cut surface | | | tensile strength (N/mm ²) | elongation (%) | | |
| 8001 | ◎ | ○ | 114 | ○ | 528 | 35 | ○ | 0.5 |
| 8002 | ◎ | ○ | 116 | ○ | 545 | 37 | ○ | 0.2 |
| 8003 | ○ | ○ | 113 | △ | 547 | 34 | ○ | 0.4 |
| 8004 | ◎ | ○ | 116 | ○ | 482 | 30 | △ | 0.5 |
| 8005 | ◎ | ○ | 117 | ○ | 502 | 32 | ○ | 0.3 |
| 8006 | ◎ | ○ | 117 | △ | 570 | 36 | ○ | 0.4 |
| 8007 | ◎ | ○ | 117 | ○ | 575 | 33 | ○ | 0.2 |
| 8008 | ◎ | ○ | 118 | ○ | 552 | 36 | ○ | 0.3 |

【Table 29】

| No. | machinability | | corrosion resistance maximum depth of corrosion (μm) | hot workability 700°C deformability | mechanical properties | | stress resistance corrosion cracking resistance | high-temperature oxidation increase in weight by oxidation (mg/10cm ²) |
|------|----------------------|--------------------------------|----------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------|-------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------|
| | form of chippings | condition of cut surface | | | tensile strength (N/mm ²) | elongation (%) | | |
| 9001 | ◎ | ○ | 115 | ○ | 526 | 33 | ○ | 0.4 |
| 9002 | ○ | ○ | 113 | △ | 543 | 30 | ○ | 0.3 |
| 9003 | ○ | ○ | 115 | △ | 508 | 28 | ○ | 0.4 |
| 9004 | ◎ | ○ | 117 | ○ | 567 | 37 | ○ | 0.2 |
| 9005 | ◎ | ○ | 115 | △ | 571 | 33 | ○ | 0.4 |
| 9006 | ◎ | ○ | 116 | ○ | 513 | 35 | ○ | 0.4 |

【Table 30】

| No. | machinability | | | corrosion resistance maximum depth of corrosion (μm) | hot workability 700°C deformability | mechanical properties | | stress resistance corrosion cracking resistance | high-temperature oxidation increase in weight by oxidation ($\text{mg}/10\text{cm}^2$) |
|-------|----------------------|--------------------------------|-------------------------|----------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|-------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| | form of chippings | condition of cut surface | cutting force (N) | | | tensile strength (N/mm^2) | elongation (%) | | |
| 10001 | ◎ | ○ | 115 | <5 | ○ | 534 | 38 | ○ | 0.1 |
| 10002 | ◎ | ○ | 116 | 10 | ○ | 538 | 36 | ○ | 0.4 |
| 10003 | ◎ | ○ | 117 | <5 | ○ | 563 | 39 | ○ | <0.1 |
| 10004 | ◎ | ○ | 115 | <5 | ○ | 505 | 30 | △ | 0.2 |
| 10005 | ◎ | ○ | 116 | <5 | △ | 572 | 38 | ○ | 0.2 |
| 10006 | ◎ | ○ | 115 | <5 | ○ | 514 | 28 | ○ | 0.1 |
| 10007 | ◎ | ○ | 114 | <5 | ○ | 525 | 34 | ○ | 0.2 |
| 10008 | ◎ | ○ | 115 | 20 | ○ | 530 | 36 | ○ | 0.2 |

【Table 31】

| No. | machinability | | | corrosion resistance maximum depth of corrosion (μm) | hot workability 700°C deformability | mechanical properties | | stress resistance corrosion cracking resistance | high-temperature oxidation increase in weight by oxidation ($\text{mg}/10\text{cm}^2$) |
|-------|----------------------|--------------------------------|-------------------------|----------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|-------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| | form of chippings | condition of cut surface | cutting force (N) | | | tensile strength (N/mm^2) | elongation (%) | | |
| 11001 | ◎ | ○ | 115 | <5 | ○ | 552 | 35 | ○ | 0.2 |
| 11002 | ◎ | ○ | 116 | 30 | △ | 504 | 28 | △ | 0.2 |
| 11003 | ◎ | ○ | 115 | <5 | △ | 598 | 34 | ○ | <0.1 |
| 11004 | ◎ | ○ | 116 | <5 | ○ | 515 | 32 | ○ | 0.1 |
| 11005 | ○ | ○ | 113 | <5 | ○ | 540 | 35 | ○ | 0.1 |
| 11006 | ◎ | ○ | 116 | 20 | △ | 487 | 31 | ○ | 0.1 |
| 11007 | ◎ | ○ | 117 | <5 | ○ | 524 | 32 | ○ | 0.1 |
| 11008 | ○ | ○ | 114 | <5 | ○ | 537 | 30 | ○ | 0.2 |
| 11009 | ◎ | ○ | 115 | <5 | △ | 569 | 35 | ○ | 0.1 |
| 11010 | ◎ | ○ | 115 | 10 | ○ | 531 | 32 | ○ | 0.1 |
| 11011 | ◎ | ○ | 116 | <5 | ○ | 510 | 29 | ○ | 0.1 |